Contracts to Be Let

Bids received until May 17, 1915.

Contract 8—Nepaug Reservoir

Hartford, Conn.

Sealed proposals, addressed to the Board of Water Commissioners of the City of Hartford, for the construction of a new gravel surface road north of Nepaug Reservoir in the Town of New Hartford, Conn., will be received at the office of the Board, City Hall, Hartford, until 3:00 p.m., Monday, May 17, 1915.

Contract 8 comprises the construction of a gravel road about 1½ miles long through new country. The road will have a travel path 14 feet wide with 8 inches of gravel surfacing, together with the necessary culverts and guard fences.

Plans and specifications may be obtained at the office of the Chief Engineer, Pilgard Building, Hartford, Conn., on deposit of $5.00, which amount will be refunded if the plans and specifications are returned in good order before June 17, 1915. Specifications used in making a bid will be considered as returned.

A certified check or cashier's check for $2,000 must accompany each bid and the successful bidder will be required to furnish bonds in the sum of $20,000. The right is reserved to reject any and all bids.

It is expected to let contracts in the near future for the following work, which is in the immediate vicinity of this location and which may be looked over by prospective bidders at the same time that the road work on Contract 8 is examined:

Contract 9—East Dike. Contract probably will be advertised about June 1st and calls for the construction of an earth dam about 25 feet high and 600 feet long, containing about 28,000 cubic yards of earth embankment and 1,500 cubic yards of masonry core wall.

Contract 10—Richards Corner Dam. Contract probably will be advertised about June 15th and calls for the construction of an earth dam 70 feet high and 800 feet long, containing about 250,000 cubic yards of soil and gravel filling, 13,000 cubic yards of masonry core wall, 10,000 cubic yards of rock excavation and a concrete conduit and stream control for a drainage area of 62 square miles.

Later in the year a contract will be let for clearing the entire Nepaug Reservoir area of about 900 acres and grubbing about 125 acres of shore line.

BOARD OF WATER COMMISSIONERS,
WALTER S. GARDE, President.
FRED D. BERRY, Secretary.
CALEB MILLS SAVILLE, Chief Engineer.

Bids received until May 21, 1915.

Bridges

Rome, Ga.

Sealed proposals will be received by the Board of Commissioners of Roads & Revenue, Floyd County, Ga., until twelve o'clock noon of May 21st, 1915, for the construction of the following bridges, with the City of Rome, said County.

(a) Second Avenue Bridge—A reinforced concrete arch bridge, forty foot roadway and two eight foot sidewalks, total length of about three hundred and seventy-six (376) ft.

(b) Reinforced concrete arch bridge at Broad Street, forty foot roadway and two eight foot sidewalks, total length of about four hundred and seven (407) feet.

(c) Steel truss bridge on concrete substructure, at Fifth Avenue, with a thirty-six and one-half foot roadway and two eight foot sidewalks, total length three hundred and sixty-seven (367) feet. This bridge will have a movable channel span with a channel clearance of about one hundred feet.

Certified check for One Thousand Dollars must accompany each bid.

Instructions to bidders, plans, specifications, forms of contracts, proposal and bond may be seen in the offices of the Consulting Engineers, Greiner & Whitman, Fidelity Building, Baltimore, Md., W. C. Spiker, Hurt Building, Atlanta, Ga., and in the office of Kieffer Lindsey, County Engineer, at Rome, Ga.

Contractors can obtain complete sets of plans, specifications, etc., from W. C. Spiker, for the sum of $5.00 per set for the Fifth Avenue Bridge and $5.00 per set for the Second Avenue and Broad Street bridges combined, and the Board reserves the right to reject any or all proposals and to make the award for either bridge separately or all bridges together, according to the best interest of the County.

After bidding on plans as above stated bidders may also submit alternate designs and specifications with their bids thereon, such alternate designs to be approved by the County Consulting Engineers. This April 19th, 1915.

J. G. POLLOCK, Commissioner.
C. L. CONN, Commissioner.
W. N. HORTON, Commissioner.
P. C. GRIFFIN, Commissioner.
C. M. YOUNG, Commissioner.
J. S. DAVIS, Commissioner.

Bids received until May 28, 1915.

Notice to Bridge Contractors

Canton, N. Y.

Sealed proposals, endorsed "Proposal for Bridge on Canton-Pierrepont Road," will be received by the Town Board of the Town of Canton, N. Y., at the Office of the Town Clerk in the Village of Canton, N. Y., until 2 P.M. on the 28th day of May, 1915.

The work consists of removing the superstructure of the present bridge over Granis Brook on said Road in such a manner that said bridge can be used again, and placed where directed by the Town Superintendent, and furnishing and erecting the superstructure of a new steel truss bridge of one span of 46 feet, with roadway of 18 feet in width, complete and ready for the concrete floor.

Each proposal must be accompanied by a certified check, or its equivalent, for ten per cent. of the amount of the proposal.

A bond for the whole amount, approved by the Supervisor, must be furnished by the successful bidder.

Specifications may be obtained from the Town Clerk or Supervisor.

The Town Board reserves the right to reject any or all proposals.

C. G. CHANEY, Supervisor.
H. M. BARBER, Town Clerk.
A. H. WILLIAMS, Town Supt.

Dated May 3rd, 1915.

Bids received until May 28, 1915.

Notice to Bridge Contractors

Canton, N. Y.

Sealed proposals, endorsed "Proposal for Morley Bridge," will be received by the Town Board of the Town of Canton, N. Y., at the Office of the Town Clerk in the Village of Canton, N. Y., until 2 P.M. on the 28th day of May, 1915.

The work consists of removing the superstructure of the present bridge over the Grasse River at Morley, and piling it in neat piles where directed by the Town Superintendent, and furnishing and erecting the superstructure of a new steel truss bridge of two spans of 79′ 9″ each, with a roadway of 18 feet in width, and one sidewalk of 5 feet in width, with a concrete floor.

Each proposal must be accompanied by a certified check, or its equivalent, for ten per cent. of the amount of the proposal.

A bond, approved by the Supervisor, must be furnished by the successful bidder.

Plans are on file with the Town Clerk, and specifications may be obtained from him or from the Supervisor.

The Town Board reserves the right to reject any or all proposals.

C. G. CHANEY, Supervisor.
H. M. BARBER, Town Clerk.
A. H. WILLIAMS, Town Supt.

Dated May 3rd, 1915.

Bids received until June 1, 1915.

Highway Work

OFFICE OF THE STATE COMMISSION OF HIGHWAYS.
Albany, N. Y.

Sealed proposals will be received by the undersigned at their office, No. 55 Lancaster Street, Albany, N. Y., at 1 o'clock p.m. on Tuesday, the 1st day of June, 1915, for the repair of highways in the following counties:

Albany (one contract—surface treatment); Chenango (two contracts—surface treatment); Clinton (one contract—surface treatment); Cortland (one contract—surface treatment); Delaware (one contract—surface treatment); Erie (one contract—surface treatment); Essex (two contracts—surface treatment); Fulton (one contract—surface treatment); Herkimer (one contract—surface treatment); Jefferson (one contract—surface treatment); Madison (one contract—surface treatment); Monroe (one contract—surface treatment); Montgomery (two contracts—surface treatment); Orange (one contract—surface treatment, one contract—resurfacing); Otsego (one contract—surface treatment); Rensselaer (two contracts—surface treatment); St. Lawrence (one contract—surface treatment, one contract—resurfacing); Saratoga (one contract—surface treatment); Schenectady (one contract—surface treatment); Schoharie (one contract—surface treatment); Steuben (one contract—resurfacing); Sullivan (one contract—surface treatment); Warren (one contract—resurfacing and surface treatment); Washington (one contract—surface treatment).

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Commission in Albany, N. Y., and also at the office of the Division Engineers in whose divisions the contracts are to be repaired. The addresses of the Division Engineers and the counties in which they are in charge will be furnished on request.

The especial attention of bidders is called to "Information for Bidders" in the itemized proposal, specifications and contract agreement.

EDWIN DUFFEY, Commissioner.
I. J. MORRIS, Secretary.

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Bids received until May 18, 1915.

Highway Work

OFFICE OF THE STATE COMMISSION OF HIGHWAYS
Albany, N. Y.

Sealed proposals will be received by the undersigned at their office, No. 55 Lancaster Street, Albany, N. Y., at 1 o'clock p.m. Tuesday, the 18th day of May, 1915, for the repair of highways in the following counties:

Allegany (one contract—surface treatment, one contract—resurfacing); Cayuga (one contract—resurfacing); Franklin (one contract—surface treatment, one contract—resurfacing); Fulton (one contract—surface treatment); Genesee (one contract—surface treatment, one contract—broken stone); Livingston (three contracts—surface treatment, one contract—broken stone); Monroe (two contracts—surface treatment, four contracts—broken stone); Hamilton (one contract—surface treatment); Ontario (one contract—surface treatment, one contract—resurfacing, one contract—broken stone); Madison (two contracts—surface treatment); Montgomery (one contract (surface treatment); Oneida (three contracts—surface treatment); Otsego (one contract—surface treatment); Herkimer (one contract—surface treatment); Orange (two contracts—resurfacing); Orleans (one contract—surface treatment, one contract—broken stone); Oswego (two contracts—surface treatment; Rensselaer (one contract—resurfacing); Seneca (one contract—surface treatment); Steuben (one contract—resurfacing); Tompkins (one contract—resurfacing); Washington (one contract—resurfacing); Wyoming (one contract—surface treatment, one contract—broken stone); Yates (one contract—surface treatment).

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Commission in Albany, N. Y., and also at the office of the Division Engineers in whose division the contracts are to be repaired. The addresses of the Division Engineers and the counties in which they are in charge will be furnished on request.

The especial attention of bidders is called to "Information for Bidders" in the itemized proposal, specifications and contract agreement.

EDWIN DUFFEY, Commissioner.
I. J. MORRIS, Secretary.

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U. S. ENGINEER OFFICE, 337 Federal Building, Detroit, Mich., April 8, 1915.—Sealed proposals for construction of concrete masonry for fourth lock at Sault Ste. Marie, Mich., will be received at this office until 12 M., May 24, 1915, and then publicly opened. Information on application. MASON M. PATRICK, Lt.-Col., Engrs.

Bids received until May 29, 1915.

Concrete-Steel Arch Bridge

Wallkill, N. Y.

Sealed proposals will be received at the office of the Town Clerk, Town of Shawangunk, Wallkill, Ulster County, New York, until Saturday, May 29th, 1915, at two o'clock P.M., for furnishing all labor and materials and constructing a concrete-steel arch bridge over the Wallkill River, in the Village of Wallkill, and will be publicly opened and read at that time.

Plans and specifications may be seen at the office of the Town Clerk, Town of Shawangunk, Wallkill, New York. Copies of the plans and specifications may be obtained from the Concrete-Steel Engineering Company, Park Row Building, New York City, or J. F. Loughran, County Superintendent of Highways, 74 John Street, Kingston, New York, upon making a deposit of TEN ($10.00) DOLLARS, which will be refunded upon the return of the plans and specifications by all bidders for the work, and to those others returning the plans and specifications before the date of letting, provided such plans and specifications are returned in good order.

Each proposal must be accompanied by a certified check on a National Bank for ten (10%) per cent. of the contract price, made payable to the order of the Town of Shawangunk, Ulster County, New York.

The right is reserved to accept or reject any or all bids.

J. GRANT UPWRIGHT,
Town Superintendent of Highways.

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Bids received until June 7, 1915.

Sewerage System and Sewage Disposal Works

Downingtown, Pa.

Sealed proposals will be received by the Borough Council of Downingtown, Pa., at the Council Chamber, up to 8 o'clock P.M. of the 7th day of June, 1915, for furnishing all the labor, materials and plant, and doing all the work necessary for constructing a sewage disposal works, and all or a portion of a sewerage system.

The work to be done includes seven miles of 8, 10, 12, 15 and 18" sewers, and a complete sewage disposal works.

A certified check for $2000 must accompany each bid. The Borough Council reserves the right to reject any or all bids, to waive any informality in the bids received, or to accept the bid or bids most favorable to the Borough of Downingtown.

Plans may be seen and specifications and forms of proposals obtained from Charles McFadden, Secretary of Council, or at the office of Herbert W. Hatton, Consulting Engineer, 708-9 Equitable Building, Wilmington, Del., after May 20. A full set of blue prints will be sent prepaid to a prospective bidder upon receipt of four dollars, which sum will be returned only to the successful bidder.

CHARLES McFADDEN, Secretary of Council.
HERBERT W. HATTON, Consulting Engineer.

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Bids received until May 18, 1915.

Demolition of Power House

Albany, N. Y.

Sealed proposals will be received by the Trustees of Public Buildings at the Executive Chamber, Capitol, Albany, N. Y., until 4 o'clock P.M. on Tuesday, May 18, 1915, at which time they will be opened and read publicly, for the demolition of the old Power House located at Lafayette, Elk and Hawk Streets, in the City of Albany, New York. These proposals shall be accompanied by certified check in the amount of bid and the contractor to whom the award is made will be required to furnish surety bond in the sum of $1250 to insure the completion of the work within thirty (30) days from date of award of contract. Failure to furnish bond within specified time will cancel the notice of award and cause the forfeiture of the certified check. The State reserves the right to reject any or all bids.

LEWIS F. PILCHER, State Architect,
Capitol, Albany, N. Y.

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FORT HUACHUCA, Ariz., May 8, 1915.—Sealed proposals, in triplicate, will be received here until 1 P.M., June 9, 1915, and then opened, for furnishing all materials, machinery and labor required in constructing complete an electric light and refrigerating plant and installing interior and exterior wiring system. $10 deposit required for plans and specifications. For information address CONSTRG. QUARTERMASTER.

Bids received until May 25, 1915.

Sewerage System

Rittman, Ohio.

Sealed proposals will be received by the Clerk of Council at Rittman, Ohio, in the Council Chamber, until 1 o'clock P.M., Central Standard time, of the 25th day of May, 1915, and then publicly opened and read, for the construction of a Sewerage System for certain portions of the Village of Rittman, Ohio.

The work to be done includes the construction of approximately 5.36 miles of vitrified pipe sewers, ranging in size from 6 to 15 inch, to be located on the several streets and thoroughfares and private right-of-ways in the Village.

Bids will be made upon the work as a whole.

Copies of the plans, proposal forms, specifications, and forms of bonds and contract can be seen at the office of the Clerk of Council, Rittman, Ohio; or may be obtained by prospective bidders upon depositing Ten Dollars ($10.00) with W. F. Peters, Engineer, Medina, Ohio, or R. Winthrop Pratt, Consulting Engineer, Hippodrome Bldg., Cleveland, Ohio, which sum will be refunded on the return of plans and specifications within ten (10) days after the contract is awarded, if same are in good condition when returned.

The contract bond will be for fifty (50%) per cent. of the amount of the contract.

Each proposal shall be accompanied by a certified check for ten (10%) per cent. of the amount of proposal, or by a bond with surety or sureties satisfactory to the Village Council.

The Village Council reserves the right to reject any or all bids, waive any informalities in the bids received and to accept any bid which it deems most favorable to the Village of Rittman, Ohio.

By Order of the Village Council.

VANCE HICKIN, Clerk.

Bids received until May 21, 1915.

Highway Work

OFFICE OF THE STATE COMMISSION OF HIGHWAYS.

Albany, N. Y.

Sealed proposals will be received by the undersigned at their office, No. 55 Lancaster Street, Albany, N. Y., at 1 o'clock p.m., Friday, the 21st day of May, 1915, for the improvement of Highways in the following counties:

Broome, 3 highways (1.03; 0.41; 0.28); Cattaraugus, 3 highways (5.62; 3.95; 6.88); Delaware, 3 highways (7.69; 11.40; 5.84); Genesee (approx. length 4.49); Greene (approx. length 4.43); Oneida (approx. length 5.73); Ontario, 4 highways (1.38; 1.23; 8.63; 1.53); St. Lawrence, 2 highways (5.07; 3.09); Schenectady (approx. length 3.34); Suffolk (approx. length 10.50); Washington, 2 highways (3.34; 5.96).

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Commission in Albany, N. Y., and also at the office of the Division Engineers in whose division the road is to be constructed. The addresses of the Division Engineers and the counties in which they are in charge will be furnished on request.

The especial attention of bidders is called to "Information for Bidders" in the itemized proposal, specification and contract agreement.

EDWIN DUFFEY, Commissioner.

I. J. MORRIS, Secretary.

Bids received until May 31, 1915.

Auxiliary Pumping Unit

PETERBOROUGH UTILITIES COMMISSION,

Peterborough, Ontario.

Sealed Tenders, endorsed "Tender for Pumping Unit," addressed to S. R. Armstrong, Esq., Secretary, Peterborough Utilities Commission, Peterborough, Ont., Canada, will be received until noon of May 31st, 1915, for the construction and installation in place of a complete Pumping Unit.

Tenders must be accompanied by a marked cheque as required by Specification.

Specifications may be obtained from the Secretary; address as above.

WM. KENNEDY, JR., Engineer,
364 University St., Montreal.

Bids received until May 25, 1915.

Sewage Treatment Plant

Rittman, Ohio.

Sealed proposals will be received by the Clerk of Council at Rittman, Ohio, in the Council Chamber, until 1 o'clock P.M., Central Standard time, of the 25th day of May, 1915, and then publicly opened and read, for the construction of a Sewage Treatment Plant for the Village of Rittman, Ohio.

The work to be done includes the construction of a pump station with electric driven centrifugal pumps, concrete sedimentation and dosing tanks, 1.25 acres of intermittent sand filters and an earth dike.

Bids will be made upon the work as a whole.

Copies of the plans, proposal forms, specifications, and forms of bonds and contracts can be seen at the office of the Clerk of Council, Rittman, Ohio; or may be obtained by prospective bidders upon depositing Ten ($10.00) Dollars with W. F. Peters, Engineer, Medina, Ohio, or R. Winthrop Pratt, Consulting Engineer, Hippodrome Bldg., Cleveland, Ohio, which sum will be refunded on the return of plans and specifications within ten (10) days after the contract is awarded, if same are in good condition when returned.

The contract bond will be for fifty (50%) per cent. of the amount of the contract.

Each proposal shall be accompanied by a certified check for ten (10%) per cent. of the amount of proposal, or by a bond with surety or sureties satisfactory to the Village Council.

The Village Council reserves the right to reject any or all bids, waive any informalities in the bids received and to accept any bid which it deems most favorable to the Village of Rittman, Ohio.

By Order of the Village Council.

VANCE HICKIN, Clerk.

Bids received until June 1, 1915.

To Bridge Contractors

Lake Charles, La.

Sealed bids will be received until 11 o'clock a.m., Tuesday, June 1, 1915, at the office of the Highway Department, Calcasieu Parish, Lake Charles, La., for the construction of a reinforced concrete arch bridge with a Double Leaf Strauss Trunnion Bascule Span, over the Calcasieu River near Lake Charles.

Each bidder shall file with his bid a sworn statement setting forth the location and description of a similar structure, or structures which he has erected as proof of his ability and experience to undertake the present work.

Bidders shall file with their bids a surety company bond for an amount equal to the total bid, and this bond shall guarantee the execution and completion of the contract if awarded.

Bid, bond and sworn statement shall be enclosed in a sealed envelope bearing the bidder's name and marked: "Bid for Calcasieu River Bridge."

Plans and specifications are on file at the office of the Highway Department, and the office of this paper, and copies of same may be obtained upon payment of ten dollars ($10.00), same to be refunded upon the receipt of a bona fide bid and the return of the plans and specifications.

The Police Jury reserves the right to reject any or all bids.

C. E. HOUSE, Clerk to the Police Jury.

F. H. FRANKLAND, Bridge Engineer.

Bids received until May 25, 1915.

Water Pipe

Philadelphia, Pa.

Bids will be opened on May 25, 1915, at noon, in Room 225, City Hall, Philadelphia, Pa., for furnishing and laying cast iron water pipe under Contract No. 260, containing approximately 17,000 feet of 48 inch pipe, 3300 feet of 30 inch, and 21,000 feet of 24 inch and under. Plans and specifications for which a deposit of $5.00 is required, and any further information, can be had at the Bureau of Water, Room 701, City Hall, Philadelphia.

C. E. DAVIS, Chief of Bureau.

Bids received until May 28, 1915.

Invitation to Paving Bidders

Wilmington, Del.

Sealed bids, in either one or two forms or both, will be received by the Board of Directors of the Street and Sewer Department of the City of Wilmington, Delaware, at the office of said Department, S. W. corner Sixth and King Streets, until 4 o'clock P.M. May 28, 1915, for the following work, on streets to be selected by the Street and Sewer Department from list published with the instructions and specifications for such work, which instructions and specifications, together with proposal blanks, may be obtained at the said office.

FORM NO. 1

Will be for the furnishing of labor and materials for all the following items, said items to be considered jointly:

Item 1. Setting new granite curb.
Item 2. Resetting granite curb.
Item 3. Constructing new concrete curb.
Item 4. Constructing concrete and brick gutters.
Item 5. Grading and excavating streets.
Item 6. Constructing concrete foundations.

Prices to be for performing all of the divisions of the work in such amount as is necessary to complete, on one or more streets to be selected by the Street and Sewer Department from said list:

1.	Not less than	5,000	square	yards	of	street surface
2.	"	10,000	"	"	"	"
3.	"	20,000	"	"	"	"
4.	"	30,000	"	"	"	"
5.	"	40,000	"	"	"	"
6.	"	50,000	"	"	"	"
7.	"	75,000	"	"	"	"
8.	"	100,000	"	"	"	"

Bidders may submit prices on any or all of the above quantities.

FORM NO. 2

Will be for the furnishing of labor and materials for all the following items, said items to be considered jointly:

Item 1. Setting new granite curb.
Item 2. Resetting granite curb.
Item 3. Constructing new concrete curb.
Item 4. Constructing concrete and brick gutters.
Item 5. Grading and excavating streets.
Item 6. Constructing concrete foundations.
Item 7. Constructing sheet asphalt pavement, or asphaltic concrete pavement, or Bitulithic pavement, or Warrenite pavement, or vitrified block pavement, or stone block pavement, or creosoted wood block pavement, or portland cement concrete pavement.

Prices to be for performing all of the divisions of the work in such amount as is necessary to complete with one kind of pavement, on one or more streets to be selected by the Street and Sewer Department from said list:

1.	Not less than	5,000	square	yards	of	street surface
2.	"	10,000	"	"	"	"
3.	"	20,000	"	"	"	"
4.	"	30,000	"	"	"	"
5.	"	40,000	"	"	"	"
6.	"	50,000	"	"	"	"
7.	"	75,000	"	"	"	"
8.	"	100,000	"	"	"	"

Bidders may submit prices on any or all of the above quantities.

The bids will be publicly opened at the aforesaid time. The right is reserved to reject any or all bids or to accept any portions of the bids.

BOARD OF DIRECTORS OF THE STREET AND SEWER DEPARTMENT.

Attest:
L. V. CHRISTY, Secretary.

Bids received until May 28, 1915.

Water-works Extension

CAST IRON PIPES, SPECIAL CASTINGS, VALVES, ETC.
PIPE LAYING

City of Frederick, Frederick County, Maryland.

Sealed proposals addressed "To the Board of Aldermen of the City of Frederick, Frederick County, Maryland," will be received until 2 o'clock P.M. on Friday, May 28th, 1915, at the City Hall, for furnishing and laying 12" cast iron pipes, special castings, valves, etc.

A certified check for $100.00 must accompany each proposal.

The Board of Aldermen reserves the right to reject any or all bids.

Previous to the above date, specifications and information can be obtained from Mr. J. H. Schmidt, Clerk to the Mayor and Aldermen, Mr. George A. Burck, Water Works Superintendent, at Frederick, and

WILLIAM H. BOARDMAN, Engineer,
426 Walnut Street, Philadelphia, Penna.

Bids received until May 19, 1915.

State Highway Construction

Augusta, Maine.

Sealed proposals addressed to the State Highway Commission, Augusta, Maine, for building 27.07 miles of state highway in the towns of Scarboro 5.47 miles; Thomaston 1.28 miles; Manchester 2.68 miles; Fairfield 2.29 miles; Searsport 2.53 miles; Prospect 0.32 mile; Edmunds 1.95 miles; Poland 3.65 miles; Oxford 3.77 miles; and in the cities of South Portland 2.22 miles and Bath 0.89 mile, will be received by the Commission at its office in the State House, Augusta, Maine, until eleven o'clock A.M. of May 19th, 1915, and at that time and place publicly opened and read. The work will consist of building gravel surfaced roads, except as follows: Scarboro, bituminous macadam; South Portland, concrete or bituminous macadam; Manchester, water-bound macadam, and Oxford, sand clay.

All proposals must be made upon the blank form provided by the Commission, for copy of which a deposit of one dollar will be required. Each proposal must be accompanied by a certified check for 10% of the amount bid, payable to the State Treasurer of Maine. The deposit and the certified check will be returned to the unsuccessful bidder unless forfeited under the conditions stipulated.

A surety company bond satisfactory to the Commission, of not less than one-fourth nor more than one-half of the amount of the contract will be required. Plans may be seen and forms of specifications and contract may be obtained at the office of the Commission, Augusta, Maine.

The right is reserved to reject any or all proposals.

LYMAN H. NELSON, Chairman,
PHILIP J. DEERING,
WILLIAM M. AYER,
State Highway Commission.

Dated at Augusta, Me., May 3rd, 1915.

Bids received until May 24, 1915.

Sewage Disposal Works

Greenwich, Conn.

Sealed proposals will be received by the SEWER COMMISSIONERS of the Town of Greenwich, Connecticut, at their Office in the Town Building until eight o'clock P.M., on MONDAY, MAY 24th, 1915, for the construction of a SEWAGE DISPOSAL WORKS to be erected in East Port Chester, Connecticut, Sewer District No. 9.

Plans and Specifications can be seen or obtained at the Offices of the Sewer Commissioners, Town Building, Greenwich, Connecticut, Mr. Sheldon E. Minor, C. E., Trust Company Building, Greenwich Avenue, Greenwich, Connecticut, or Mr. Clyde Potts, Consulting Engineer, No. 30 Church Street, New York City, New York. The right is expressly reserved to reject any or all bids.

WILLIAM WILSON HEATON,
ISAAC M. HUBBARD,
ALBERT C. PECK,
Sewer Commissioners of the Town of Greenwich, Connecticut.

Dated Greenwich, Connecticut, May 4th, 1915.

Bids received until May 19, 1915.

Reinforced-Concrete Chimney

New Orleans, La.

Sealed Proposals will be received by the Board of Commissioners of the Port of New Orleans, at their Office, Suite 200 New Orleans Court Building, until May 19th, at eight o'clock P.M., and publicly opened, for the construction of a tapering, reinforced concrete chimney and foundation, for the Cotton Warehouses and Terminal, located on the east bank of the Mississippi River, between Valence and Soniat Streets.

Deposit required with the proposal $500.00. Bond required with Contract.

On and after May 10th, plans and specifications will be on file at the Office of Ford, Bacon & Davis, No. 921 Canal Street, New Orleans, La., by whom full sets will be furnished to prospective bidders on a deposit of $10.00, which will be returned to bidders who submit proposals, on return of set in good condition.

The right is reserved to reject any and all bids.

(Signed) ERNEST M. LOEB, President.

PROPOSALS FOR STORM-WARNING LANTERNS—U. S. Department of Agriculture, Washington, D. C., April 15, 1915. —Sealed proposals for furnishing storm-warning lanterns, as specified, f.o.b. factory, will be received here until noon, May 18, 1915, and then opened. Information furnished upon application to the Chief of Weather Bureau. Samples of the lanterns proposed to be furnished, to be submitted in connection with bid. Envelopes containing proposals should be indorsed "Proposals for Storm-warning Lanterns," and addressed to Chief, U. S. Weather Bureau, Department of Agriculture, Washington, D. C.

U. S. ENGINEER OFFICE, Kansas City, Mo., April 20, 1915. —Sealed proposals for constructing about 2250 feet standard 3-row timber dike, and about 12,000 feet standard revetment on Missouri River, about 163 miles below Kansas City, and 9 miles below Glasgow, will be received at this office until 12 M., May 20, 1915, and then publicly opened. Information on application. HERBERT DEAKYNE, Lieut.-Col., Engrs.

U. S. ENGINEER OFFICE, Wheeling, W. Va., May 3, 1915.— Sealed proposals for furnishing and delivering water turbines, air compressors, valve jacks, and gate winches, etc., for Dams Nos. 15 and 19, Ohio River, will be received at this office until 11 a.m. (Eastern time), June 2, 1915, and then publicly opened. Information on application. T. H. JACKSON, Major, Engrs.

U. S. ENGINEER OFFICE, Pittsburgh, Pa., April 21, 1915. —Sealed proposals for building two lockkeepers' houses at Dam No. 1, Monongahela River, will be received at this office until 12 M. (Eastern Standard Time), May 21, 1915, and then publicly opened. Information on application. HAROLD C. FISKE, Captain, Engrs.

PROPOSALS FOR BOOMS, MASTS, STIFF LEGS, HOISTING ENGINES, CONCRETE MIXERS AND CLAM SHELL BUCKETS.—Mississippi River Commission, 1st and 2d Districts, Room 20, Custom House, Memphis, Tenn., May 1, 1915.— Sealed proposals for furnishing and delivering booms, masts, stiff legs, hoisting engines, concrete mixers and clam shell buckets, will be received at this office until 11 a.m., May 21, 1915, and then publicly opened. Information furnished on application. E. M. MARKHAM, Maj., Engrs.

U. S. ENGINEER OFFICE, Kansas City, Mo., April 20, 1915. —Sealed proposals for constructing about 5900 feet standard 3-row timber dike on Missouri River, about 50 and 53 miles below Kansas City, and 1 mile below Napoleon and 1 mile above Camden, will be received at this office until 12 M., May 20, 1915, and then publicly opened. Information on application. HERBERT DEAKYNE, Lieut.-Col., Engrs.

U. S. ENGINEER OFFICE, 337 Federal Building, Detroit, Mich., May 5, 1915.—Sealed proposals for excavation of Earth and Rock, U. S. Power Plant Tail Race, St. Marys River, Mich., will be received at this office until 12 M., June 15, 1915, and then publicly opened. Information on application. MASON M. PATRICK, Lt.-Col., Engineers.

U. S. ENGINEER OFFICE, Louisville, Ky., April 19, 1915.— Sealed proposals for a Steel Hull for Dredge "Nolin River" will be received here until 12 noon, central time, May 19, 1915, and then publicly opened. Information on application. J. C. OAKES, Major, Engrs.

U. S. ENGINEER OFFICE, 537 Congress Street, Portland, Me., May 10, 1915.—Sealed proposals for dredging in Portland Harbor, Maine, will be received at this office until 12 M., May 25, 1915, and then publicly opened. Information on application. F. A. POPE, Maj., Engrs.

SEALED PROPOSALS will be received at the office of the undersigned, Ellis Island, N. Y. H., until 2:30 p.m., May 18, 1915, and then opened, for construction of a sea wall at the U. S. Immigrant Station, Ellis Island. For specifications apply to Hon. FREDERIC C. HOWE, Commissioner of Immigration.

PROPOSALS FOR LEVEE WORK—Mississippi River Commission, 1st & 2d Districts, Room 20, Custom House, Memphis, Tenn., April 27, 1915.—Sealed proposals for constructing about 4,500,000 cubic yards of levee work in the Upper and Lower St. Francis, and White River Levee Districts, will be received at this office until 11 a.m., May 26, 1915, and then publicly opened. Information upon application. E. M. MARKHAM, Maj., Engrs.

Bids received until June 2, 1915.

Contract 9—Nepaug Reservoir East Dike

Hartford, Conn.

Sealed proposals, addressed to the Board of Water Commissioners of the City of Hartford, for the construction of the East Dike, Nepaug Reservoir, in the Town of Canton, Conn., will be received at the office of the Board, City Hall, Hartford until 3:00 p.m., Wednesday, June 2, 1915.

This contract comprises the construction of an earth dam 25 feet high and 600 feet long, with concrete core wall, and will require about 1600 cubic yards of trench excavation, 32,000 cubic yards of earth embankment and 1800 cubic yards of concrete masonry.

Plans and specifications may be obtained at the office of the Chief Engineer, Pilgard Building, Hartford, Conn., on deposit of $5.00, which amount will be refunded if the plans and specifications are returned in good order before July 2, 1915. Checks should be made to the order of the Board of Water Commissioners. Specifications used in making a bid will be considered as returned.

A certified check or cashier's check for $2500 must accompany each bid and the successful bidder will be required to furnish bonds in the sum of $25,000.

The right is reserved to reject any or all bids.

BOARD OF WATER COMMISSIONERS,
WALTER S. GARDE, President.
FRED D. BERRY, Secretary.
CALEB MILLS SAVILLE,
Chief Engineer.

Bids received until June 1, 1915.

Filter Plant

Ridgway, Pa.

Sealed proposals will be received by the Secretary of the Town Council of The Borough of Ridgway until 12 o'clock noon, Tuesday, June 1st, 1915, for the construction of an addition to the present filter plant, including in general a sedimentation basin, a clear water basin with two superimposed filter units and a filter building.

Approximate quantities are as follows:

800 cu.yds. excavation
25 cu.yds. plain concrete
300 cu.yds. reinforced concrete.

Work to be completed August 1, 1915.

Certified check for $500, payable to "The Borough of Ridgway" required.

Bond required by successful bidder, $2500.

Plans and specifications are on file in the office of F. W. Ward, Borough Engineer, Room 10, Masonic Temple, Ridgway, Pa.

Bidder must visit site of proposed work before plans or specifications are furnished.

The Borough reserves the right to reject any or all bids.

G. F. GREINER,
Secretary Town Council.

Bids received until June 9, 1915.

Municipal Court Building

Detroit, Mich.

Sealed proposals for the erection and completion of Municipal Court Building in the City of Detroit addressed to the Department of Public Works of the City of Detroit, and endorsed "Proposal for Municipal Court Building," will be received at the office of the Commissioner, City Hall, Detroit, until 10:00 A.M. on the ninth day of June, 1915.

Except where otherwise noted in specifications each proposal is to include the entire Building Work and Mechanical Equipment.

Each bid shall be accompanied by a certified check in the sum of Ten Thousand ($10,000.00) Dollars as surety for the acceptance of the contract, payable on its face to the Department of Public Works of the City of Detroit.

The accepted bidder will be required to furnish two bonds each in a sum equal to the full amount of contract.

Proposals shall be made in accordance with the plans and specifications prepared by Smith, Hinchman & Grylls, on file in their office, copies of which may be secured upon the payment of a deposit of $25.00.

The Commissioner reserves the right to reject any or all proposals, and to waive all informalities therein.

GEO. H. FENKELL, Commissioner.

U. S. ENGINEER OFFICE, 337 Federal Building, Detroit, Mich., April 8, 1915.—Sealed proposals for constructing and placing two timber cribs and replacing with concrete, timber superstructure, breakwater at Harbor Beach, Michigan, will be received at this office until 12 noon, May 12, 1915, and then publicly opened. Information on application. MASON M. PATRICK, Lt.-Col., Engineers.

U. S. ENGINEER OFFICE, First District, New York City, Room 710 Army Building, 39 Whitehall Street, New York, N. Y., April 28, 1915.—Sealed proposals for constructing and delivering combination drill scow and dredge "General Gillespie" will be received at this office until 12 M., May 28, 1915, and then publicly opened. Information on application. W. M. BLACK, Col., Engrs.

U. S. ENGINEER OFFICE, Wilmington, N. C., Apr. 26, 1915.—Sealed proposals for furnishing and delivering about 22,000 barrels of Portland cement will be received at this office until 12 M., May 26, 1915, and then publicly opened. Information on application. H. W. STICKLE, Maj., Engrs.

U. S. ENGINEER OFFICE, Wilmington, N. C., Apr. 26, 1915.—Sealed proposals for furnishing and delivering about 19,700 tons of crushed stone will be received at this office until 1 P.M., May 26, 1915, and then publicly opened. Information on application. H. W. STICKLE, Maj., Engrs.

U. S. ENGINEER OFFICE, Kansas City, Mo., April 24, 1915.—Sealed proposals for constructing about 1000 feet standard 3-row timber dike, and about 5000 feet standard revetment on Missouri River, about 98 miles below Kansas City, and 6 miles below Waverly, will be received at this office until 12 M., May 24, 1915, and then publicly opened. Information on application. HERBERT DEAKYNE, Lieut.-Col., Engrs.

U. S. ENGINEER OFFICE, Kansas City, Mo., April 24, 1915.—Sealed proposals for constructing about 5500 feet standard 3-row timber dike on Missouri River, about 92 and 98 miles below Kansas City, opposite and about 6 miles below Waverly, will be received at this office until 12 M., May 24, 1915, and then publicly opened. Information on application. HERBERT DEAKYNE, Lieut.-Col., Engrs.

U. S. ENGINEER OFFICE, Louisville, Ky., May 4, 1915.—Sealed proposals for furnishing and erecting one Mitering Guard Gate of two leaves, for Lock No. 41, Ohio River, will be received here until 12 noon, Central time, June 4, 1915, and then publicly opened. Information on application. J. C. OAKES, Maj., Engrs.

U. S. ENGINEER OFFICE, 337 Federal Building, Detroit, Mich., April 8, 1915.—Sealed proposals for furnishing and placing stone riprap along lake face of main breakwater, Harbor Beach, Michigan, will be received at this office until 12 noon, May 11, 1915, and then publicly opened. Information on application. MASON M. PATRICK, Lt.-Col., Engineers.

SEALED PROPOSALS will be received at the office of the undersigned, Ellis Island, N. Y. H., until 2:30 p.m., May 18, 1915, and then opened, for all labor and materials required for dredging at U. S. Immigrant Station, Ellis Island, N. Y. H. For specifications apply to Hon. FREDERIC C. HOWE, Commissioner of Immigration.

U. S. ENGINEER OFFICE, Savannah, Ga., April 26, 1915.—Sealed proposals for construction and delivery of two (2) steel lighters will be received at this office until 12 o'clock, Noon (Eastern Standard Time), May 26, 1915, and then publicly opened. Information on application. W. C. LANGFITT, Colonel, Engineers.

Classified Advertising

Positions Wanted, 3 cents a word, minimum charge 50 cents an insertion, payable in advance.

Positions Open, (Civil Service Examinations), **Employment Agencies** (Labor Bureaus), **Business Opportunities, Wanted** (Agents and Salesmen—Contract Work), **Miscellaneous** (Educational—Books), **For Sale,** 5 cents a word, minimum charge $1.00 an insertion.

Count four words for keyed address care of New York; five for Chicago. Abbreviated words or symbols count as full words.

Copy should reach us not later than 10 A.M. Wednesday for that week's issue. Answers addressed to our care, Tenth Avenue at Thirty-sixth St., New York or 1144 Monadnock Block, Chicago will be forwarded (excepting circulars or similarliterature).

No information given by us regarding keyed advertiser's name or address. Original letters of recommendation or other papers of value should not be inclosed to unknown correspondents. Send copies.

Advertisements calling for bids, $3.60 an inch per insertion. N

POSITIONS WANTED

Mechanical and Electrical Engineers

SCIENTIFIC MANAGEMENT; mechanical engineer with German education and training, broad experience in large German factories, two years in this country, is looking for a position where he can prove his ability to increase output. P. W. 259, Eng. News.

Civil Engineers

CIVIL ENGINEER; college graduate; Assoc. M. Am. Soc. C. E.; 10 years' experience, design and construction, docks, bridges, roads, canals, surveys. P. W. 152, Eng. News.

CIVIL ENGINEER and Superintendent, Associate Member American Society. Ten years' experience. Three years railway surveys and construction. Three years engineer sewer construction. Three years superintendent sewer and water works. Speaks Spanish. References. P. W. 181, Eng. News.

GRADUATE CIVIL ENGINEER, Assoc. M. Am. Soc. C. E., desires position as location or constructing engineer, superintendent, foreman; age 30; married, no children; eight years' experience; railroad location and construction, water-power and irrigation construction; have handled 500 men; initial salary small, if chance of advancement on ability is good; references furnished; complete experience or personal interview vicinity New York; location immaterial; available May 20. P. W. 218, Eng. News.

WATER-SUPPLY, water power, dams, sewers; responsible charge, construction and design; present engagement soon terminates; age 34; Assoc. M. Am. Soc. C. E. P. W. 224, Eng. News.

YOUNG GRADUATE CIVIL ENGINEER, one years' experience on reinforced-concrete construction desires work; good man for contractor. P. W. 230, Eng. News.

CIVIL ENGINEER, university graduate, 2 years' building experience, now at concrete design seeks location with contractor or engineer, New York or vicinity. P. W. 231, Eng. News.

GRADUATE CIVIL ENGINEER wants work of any kind in the engineering line; five years' experience, land surveys, canal, roads, sewers and street paving. P. W. 265, Eng. News.

CIVIL ENGINEER, Assoc. M. Am. Soc. C. E. desires position; 8 years' experience on the design of foundations and reinforced concrete bridges and buildings. Expert computer of arch stresses. P. W. 264, Eng. News.

GRADUATE CIVIL ENGINEER, ten years' experience, two years irrigation, eight years superintendent of construction, desires position with contractor, city engineer or engineering company. Salary moderate. Location immaterial but more familiar with labor in west and southwest. P. W. 254, Eng. News.

GRADUATE CIVIL ENGINEER with four years' of varied experience desires position with engineer or contractor. P. W. 258, Eng. News.

CIVIL ENGINEER AND SUPERINTENDENT; 12 years continuous charge of engineering and construction work, mostly railroad; reinforced concrete a specialty; designing, estimating, etc.; experience in municipal work; executive ability; legal training; business education; references; moderate salary; just finished some work in Canada and available at any time for any location. For list of special training and experience. P. W. 260, Eng. News, Chicago

CIVIL ENGINEER; 28, single, American, technical, railroad location, design and construction, hydro-electric, water works, subways, tunnels, reports and estimates; tropics and north, speak Spanish. P. W. 261, Eng. News.

COLLEGE AND TECHNICAL GRADUATE, employed with railroad; expert estimating, designing, checking steel masonry, reinforced concrete; excellent references; desires change. P. W. 197, Eng. News.

CIVIL ENGINEER, technical graduate, Member Am. Soc. C. E.; 16 years' experience in construction and design especially waterworks and highways; speaks and writes Spanish; free after June 1. P. W. 267, Eng. News.

YOUNG MAN, graduate civil engineer, wishes work in the engineering line; location immaterial; salary secondary matter. P. W. 273, Eng. News.

GRADUATE CIVIL ENGINEER, 20 years' experience in charge irrigation, drainage and hydraulic and railroad construction, also valuation engineer public utilities, now finishing important work, wishes employment. P. W. 272, Eng. News, Chicago.

CIVIL ENGINEER, graduate, 14 years' practical experience; water-works and municipal consulting engineering; design and construction, earth, masonry, concrete and steel; investigations, reports, appraisals, fire protection; evcellent references. P. W. 275, Eng. News.

Surveyors

YOUNG MAN with eight years' experience in surveying, topography and construction desires position with engineer or contractor; hustler. P. W. 274, Eng. News.

INSTRUMENTMAN with one year experience desires position; 3 years at technical school, and summer surveying camp. P. W. 251, Eng. News.

Draftsmen

GENERAL EXPERIENCE, including structural steel, concrete, heavy timber, machinery, etc., open for a position; location, New York. P. W. 243, Eng. News.

ENGINEER AND DRAFTSMAN, 33, ten years' experience field and office work, estimating, designing and installing, building bridges, reinforced concrete and steel and general construction. P. W. 226, Eng. News.

TOPOGRAPHIC AND RAILROAD DRAFTSMAN, 30, experienced technical graduate, neat, rapid letterer, Reinhardt's style; permanent, responsible position only. P. W. 221, Eng. News, Chicago.

BY ENGINEER with experience in the design and detailing of first-class structural work. P. W. 234, Eng. News.

ENGINEER AND DRAFTSMAN, technical graduate, seven years' experience, field and office, drainage and irrigation work; A-1 letterer, Reinhardt's style; samples. P. W. 216, Eng. News.

TRACER OF ARCHITECTURAL DRAWINGS; accurate and neat; best references and moderate salary. P. W. 248, Eng. News, Chicago.

DRAFTSMAN, 27; technical; 10 years' experience mechanical, electrical, structural; neat letterer; capable designer. P. W. 278, Eng. News.

DRAFTSMAN—Ornamental iron, 11 years' experience, go anywhere, moderate salary. Desires position. P. W. 252, Eng. News.

STRUCTURAL DRAFTSMAN; M. I. T. graduate; first-class detailer; 2½ years with leading New York firm. Box 85, Barnstable, Mass.

Superintendents, Etc.

CARPENTER FOREMAN; concrete forms or heavy timber work; references. P. W. 236, Eng. News.

SUPERINTENDENT OF PAVING; 22 years' experience; good organizer; temperate. P. W. 233, Eng. News.

YOUNG MAN, graduate engineer, wishes engineering employment; character of work and location immaterial. P. W. 158, Eng. News.

TECHNICAL GRADUATE, 29, six years' experience on reinforced concrete and factory construction desires position as architect or contractor's superintendent; at present employed. P. W. 198, Eng. News.

SUPERINTENDENT, 15 years' experience, reinforced-concrete construction, especially bridges, water filtration, sewage-disposal works, foundation work, desires change from present connections to more responsible position; excellent reasons for changing; references furnished. P. W. 222, Eng. News.

PLANTS ENGINEER; 14 years' factory experience; seven years in charge engineering, power and mechanical departments; thorough acquaintance with building construction; welfare, housing and safety movements; age 38; graduate Mass. Inst. of Technology. P. W. 268, Eng. News.

YOUNG MAN, technical college education, wishes position in the engineering line; salary secondary matter. P. W. 269, Eng. News.

ENGINEERING ASSISTANT experienced in cost accounting, statistical work, correspondence and office management, seeks position. P. W. 270, Eng. News.

YOUNG MAN (28), now employed as salesman, desires position in selling end of concern connected with the building trade; since graduation from college, has had five years' experience in new business department of large engineering and construction company; good references. P. W. 279, Eng. News.

MARRIED MAN, 28; eight years' experience railway location, construction and maintenance, needs employment. C. E. Newell, Griffin, Ga.

ENGINEER; ten years in South America; thorough acquaintance language, customs, costs. Best references. P. W. 157, Eng. News, Chicago.

BY AN ENGINEER, good draftsman, eight years' experience in railroad engineering, rodman to resident engineer. Past two years erection engineer and estimator industrial building construction. Age 28. Married. Residence, P. W. 255, Eng. News, Chicago.

REINFORCED CONCRETE DESIGNER and ESTIMATOR, formerly with large Chicago steel company; best references. Geo. Hutsler, 1301 Hartford St., Lafayette, Ind.

ESTIMATOR, building construction, reliable and quick in quantities, over 10 years' experience, good draftsman, can prepare details on wood and steel, etc., specialist in reinforced concrete, graduated civil engineer, 34, married, wants position; moderate salary. P. W. 253, Eng. News.

GRADUATE ENGINEER now employed wants to locate with private concern; willing to start from bottom, if chances are good; several years experience; road work, sewers, dam, grade crossings and subway work; expert computer (formerly computer U. S. Coast and Geodetic Survey); location immaterial. P. W. 244, Eng. News.

POSITION wanted with general contractor; capable office man, stenographer and outside. P. W. 277, Eng. News.

SUBMARINE DIVER, 12 years' experience in bridge work, coffer-dams and general under-water repairs seeks position with reliable contracting firm, permanent or temporary employment. P. W. 276, Eng. News.

GENERAL CONTRACTOR'S ENGINEER and estimator on all trades entering into every class of construction, mostly successful, desires permanent position. P. W. 280, Eng. News.

POSITIONS OPEN

STRUCTURAL DETAILERS wanted for structural shop in Havana, Cuba; must be fully experienced, rapid and accurate on mill-building work; state experience, references and salary at once; permanent position for right men. P. 240, Eng. News.

TRANSITMAN wanted to take charge of party on street railroad surveys in Brooklyn. Must be good draftsman. P. 256, Eng. News.

RODMAN wanted for street railroad surveys in Brooklyn. P. 257, Eng. News.

COMPETENT and experienced structural designer and estimator required for mill building work to take permanent position in Havana, Cuba, with manufacturing company. State experience, references and salary. P. 262, Eng. News.

SUPERINTENDENT OF ASPHALT PLANT; in New York City. Only those having had thorough experience in such a capacity need apply. Must be able to handle men, and understand thoroughly the machinery of an asphalt plant. Applicants should furnish a detailed statement or experience, giving age and references. P. 263, Eng. News.

HYDRAULIC DREDGE FOREMAN wanted; must have had long experience in this particular work. Applicants please state age and salary required and give details of experience. P. 217, Eng. News.

Employment Agencies

The Employment Agencies advertising in this paper agree to refund any registration fee on demand any time within the first six months when no position is secured.

TECHNICAL ENGINEERS in every line for available positions; employers and applicants write The Toledo Engineering Agency, Toledo, Ohio.

ENGINEERS, ARCHITECTS AND DRAFTSMEN wanted. The Kansas City Engineering Agency, 323 Midland Building, Kansas City, Mo.

LABOR BUREAUS

SPECIAL ADVANTAGES to contractors or others employing skilled or unskilled laborers. Commissary privileges optional. Central Labor Agency, 139 Mulberry St., New York. (Telephone 8970 Canal.)

LABORERS—Immigrants of any nationalities supplied at short notice at any part of the United States; camps and commissary runner; promptness and systems are our success. People's Labor Agency, 88 Baxter St., New York.

WANTED

AGENTS AND SALESMEN

ENGINEER OR DRAFTSMAN to sell WINSLOW direct-reading, beam and reinforced concrete calculating SLIDE-RULES. Simple, quick. Good opportunity for first agent in each city. Henry W. Tomlinson, 62 East Van Buren St., Chicago.

WANTED TO REPRESENT MANUFACTURER in New York territory, by man well acquainted with the pump and power plant field; several years successfully representing a prominent firm. Address A, Room 322-E, 30 Church St., New York City.

WANTED ENGINEERING REPRESENTATIVES for Southern and Central States to represent the Thomas method of reinforced-concrete bridge construction. William M. Thomas, 915 Hibernian Bldg., Los Angeles, Calif.

MECHANICAL SALESMAN now covering New York, New Jersey, Pennsylvania, wants negotiations; exclusive or side. W. 271, Eng. News.

MECHANICAL ENGINEER opening office in Dayton, Ohio, desires to represent manufacturers in this territory. P. O. Box 297, Springfield, Ohio.

BUSINESS OPPORTUNITIES

CONSTRUCTION COMPANY (specializing concrete work), newly incorporated, offers good opportunity to man who can invest at least three thousand dollars ($3000). No triflers. Address Concrete, Room 416, 145 Nassau St., N. Y. C.

CORRESPONDENCE COURSES

of instruction and practical work in designing and estimating the cost of structures of steel and reinforced concrete have been prepared by a well known Consulting Engineer,

FOR ENGINEERS

The personal attention of the engineer who prepared these courses is given to all the work submitted by each subscriber and therefore the membership is limited.

Two separate courses are offered, under the following designations,—

STRUCTURAL STEEL DESIGNING
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These courses are *not* a duplication of the work given in technical colleges on these subjects, and are *not* a re-hash of matter taken from text books. The work differs from either because it gives the short concise practical methods actually used by engineers in such work, supplemented by labor saving tables and diagrams. They

PROVIDE ACTUAL EXPERIENCE

and save years spent in mis-directed efforts which are a necessary result of trying to acquire experience without the direct aid and assistance of an engineer properly experienced in such work.

Address M. 180, Engineering News

For Sale
Second Hand Equipment

Rates: Less than 4 insertions 55 cents per line—4 to 11 insertions 50 cents per line—12 or more insertions 45 cents per line.

Equipment Wanted items appear at the end of this list.

N

ADVERTISERS' NAMES are abbreviated in most of these items. Complete names and addresses are as follows:

BRADEN, James C., 26 Cortlandt St., N. Y. City.
CONTRACTORS' Service Co., 50 Church St., N. Y. City.
DALLETT & CO., Harrison Bldg., Phila., Pa.
GIVIN Co., Herbert, 30 Church St., N. Y. City.
GRIMSHAW Co., Wm. B., 688 Drexel Bldg., Phila., Pa.
HITNER'S Sons Co., Henry A., Philadelphia, Pa.
HOISTING Engine Sales Co., 120 West 32d St., New York.
LINES FLYNN Co., Inc., 30 Church St., N. Y. City.
MARINE Metal & Supply Co., 167 South St., N. Y. City.
NEW RIVER Co., The, Macdonald, W. Va.
PIPE & Contractors Supply Co., 3 Dover St., N. Y. City.
SAMPSON Co., Geo. H., 13 Pearl St., Boston, Mass., and 42 B'way, N. Y. C.; or Winston & Co., Brown Station, N. Y.
SCHMIDT, Jr., & Co., C. G. A., Empire Bldg., Phila., Pa.
SOUTHERN Iron & Equipment Co., Atlanta, Ga.
STALLEY, G. T., Box 390, Cleveland, Ohio.
WHITNEY, O. R., 39 Cortlandt St., N. Y. C. (Cort. 6095).

AIR COMPRESSORS

2—Ingersoll-Rand, Cross Compound steam and air cylinders with Corliss valve gear 2500 cu. ft. capacity.—SAMPSON.

2—Ingersoll-Rand, Cross Compound Steam and Air Cylinders with Corliss valve gear 3300 cu.ft. capacity. Boilers and Condensers with this plant. All in good condition. Bargain.—SAMPSON.

1—4700 Cu. Ft. Rand B. B. 3 Compound Steam and Compound Air Compressor with Condenser.—SAMPSON.

Several second-hand air compressors, steam and belt driven, straight line and two stage of various sizes from 70 to 1300 cu. ft. capacities. Good condition.—SAMPSON.

1—Ingersoll-Rand H-3, 1000 Cu. Ft. Compound Steam Compound.—SAMPSON.

1—WB-2 Sullivan 909 Cu. Ft. Tandem Steam Driven Compound.—SAMPSON.

1—Rand Class "C" 527 Cu. Ft. and 2—Rand Class "C" 98 cu. ft. straight Line steam Driven.—SAMPSON.

1—Imperial XB-2, 1312 Cu. Ft. and 1—Imperial XB-2, 1190 Cu. Ft. Compound Belt Driven.—SAMPSON.

1—Ingersoll-Sergeant Class "E-1" 236 Cu. Ft. Belt Driven. —SAMPSON.

1—Blake 380 Cu. Ft. Duplex Steam Comp.; 1—Ing.-Serg. Class "F" 233 Cu. Ft. Straight Line Steam Driven.—SAMPSON.

1—22x22-13-¼x24, Sullivan, steam driven, class WB 2, straight line, 2 stage, cap., 1160 cu. ft., 1—24x24x30, McKiernan, class A, straight line, steam driven, cap. 1414 cu. ft.; 1—24x24-¼x30, Ingersoll, class A, steam driven, straight line, cap. 1223 cu. ft., 2—16x20-¼x16, Ingersoll-Sergeant, class H-1, duplex, steam driven, cap. 1540 cu. ft.—HITNER'S.

Steam driven 3 Laidlaw-Dunn-Gordon duplex 2-stage, and 5 Norwalk tandem 2-stage, capacities 900 to 2100 cu.ft., condition excellent.—NEW RIVER.

American 10x10x10 straight line, steam driven, cap. 236 cu.ft.; Ingersoll-Rand 8x8x8 straight line, steam driven, cap. 100 cu.ft.; Clayton 8x8x7 duplex, cap. 150 cu.ft.—MARINE.

2 Norwalk 700 cu.ft. and 1200 cu.ft.; excellent condition. Reason for selling, mine worked out. No further use for same.—HANDY BROS. MINING CO., Bay City, Mich.

ASPHALT

About 33 tons of Limmer Mastic and 1 ton Neuchatel Asphalt, cheap.—UNION PAVING CO., 30th and Locust Sts., Philadelphia, Pa.

BELT CONVEYORS

1—14" and 1—16" 50' centers.—GIVIN.

BOILERS

5—250 H.P. B. & W., 150 lbs. steam. Horizontal return tubular, 2—72"x20', 1—78"x20', 1—72"x18', 1—72"x15', 1—72"x14', triple riveted, butt strapped, 125 lbs. steam.—HITNER'S.

35, 60 and 80 H.P. loco. boilers—PIPE.

2 New Marine, 10x11'; prompt delivery.—WHITNEY.

4—125 H.P. and 2—150 H.P. Horizontal return tubulars, butt strapped, triple riveted.—MARINE.

BUCKETS

1—1 yd. Theo. Smith Orange Peel.—PIPE.

5—¾ cu. yd. standard clam shells.—STALLEY.

Hayward 1⅝ yd., Mead & Morrison 1½ yd., Smith 1 yd. and Union Iron Works ¾ yd. clam shells; Hayward 7 cu.ft. orange peel; 10—Steubner 1¼ yd. "Excelsior" bottom dump concrete.—MARINE.

96—42 cu.ft. Stuebner tip-over buckets.—SCHMIDT.

1 "Haiss" ¾ yd. and 1 "Haiss" 1 yd. clamshell, in first-class shape; used short time. Digging teeth can be installed.—GEO. HAISS MFG. CO., 142nd St. and Rider Ave., N. Y. City.

CARS

[36" Gauge]

50—4 yd. 1-way So. Baltimore, $50 each. 8—K. & J. 3-yd. 2-way, overhauled, $70 each.—GRIMSHAW.

[24" Gauge]

10—1 yd. swivel end dump cars.—PIPE.

80—36 cu.ft. Koppel "V" body.—SCHMIDT.

CRUSHERS

Gyratory, Nos. 8, 7½, 6, 5, 4, 3.—GIVIN.

1 Climax Portable plant complete, A1.—GIVIN.

1—18x36 Farrell; 1—24x36 Buchanan.—SCHMIDT.

DERRICKS

1 steel stiff leg 70 ft. boom with cast steel bull wheel, capacity 25 tons.—MARINE.

DREDGES

Hydraulic and dipper. Sale or charter.—GIVIN.

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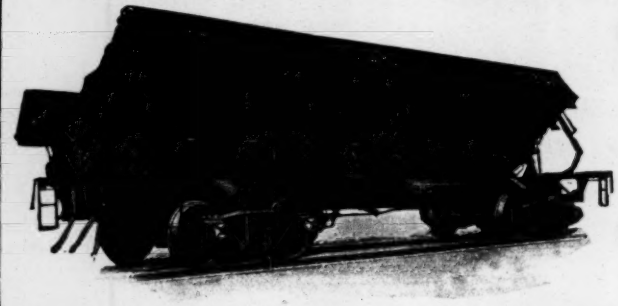

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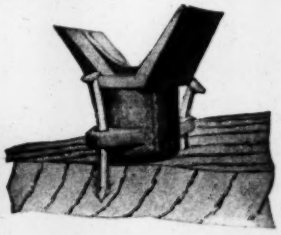

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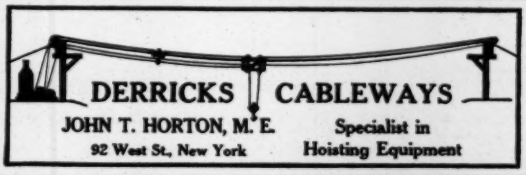

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